

Washington Latin -- Honors Pre-Calculus

Using Logarithms for Calculations

1. In the tables given, find the values for $\log 2$, $\log 3$ and $\log 5$ to 3 decimal places.

$\log 2 =$ _____ , $\log 3 =$ _____ , $\log 5 =$ _____.

2. Using the above values, find the following:

a. $\log 25 =$

b. $\log 50 =$

c. $\log 500 =$

d. $\log 5,000$

3. Find the following:

a. $\log 15 =$

b. $\log 75 =$

c. $\log 1.5 =$

d. $\log 0.2 =$

4. Find the following:

a. $\log \frac{1}{2} =$

b. $\log \frac{1}{3} =$

c. $\log \frac{1}{15} =$

d. $\log \frac{2}{15} =$

5. Find the following:

a. $\log 18 =$

b. $\log 180 =$

c. $\log 1800$

d. $\log 1.8 =$

6. Find the following:

a. $\log \sqrt{5}$

b. $\log \sqrt[5]{300} =$